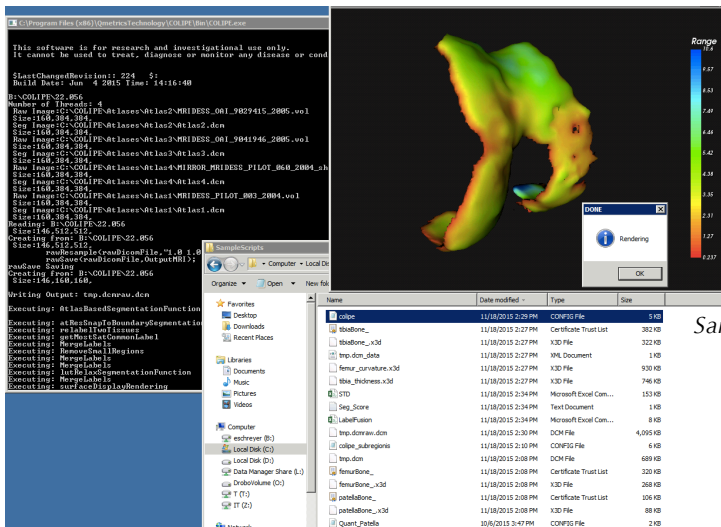


# COLIPE (Command Line Image Processing Executable)

Precise, Efficient & Repeatable Knee MRI Segmentation & Analysis Tools in Your Own Lab



*"The great thing about COLIPE being fully automated is that we can look at more regions of knee cartilage than originally planned. This adds power to our study, and allows us to specify what regions, if any, our treatment is most effective for."*

Merry Taylor, Brigham Young University

Sample COLIPE Output

COLIPE Offers an Ideal, Fully Automated Solution for Non-Commercial Researchers to Quickly and Efficiently Segment & Analyze Large Quantities of Knee MRI Image Data

## COLIPE FEATURES:

- Segments knee MR images into bones and cartilage and defines the tissue.
- Quantifies pre-set parameters of the segmented structures.
- 3D models are generated from segmented structures.
- Easy-to-use editing tools.
- Platform easily allows for measurements to be taken.

Qmetrics Technologies latest offering to academic and non-commercial researchers is COLIPE, developed to support researchers who need to segment and analyze unlimited quantities of knee MRI image data.

COLIPE is a software command-line executable for Windows that segments fat-suppressed knee MRI images using a fully automated, atlas based methodology.<sup>1</sup> It saves valuable time, while providing improved segmentation precision and repeatability in the researchers' own laboratory setting.

Qmetrics licenses COLIPE on an annual basis for unlimited use on one platform. The software can be

used only for academic, non-commercial use and includes:

- COLIPE executable (Windows<sup>2</sup>)
- Image viewer/editor
- Knee atlas set
- Documentation
- Programming examples

COLIPE generates DICOM output, suitable for use with a lab's existing analysis software tools, including:

- DICOM images with segmented tissues labeled.
- DICOM images with quantification data encoded in the DICOM header tags.
- .x3d files of surface rendered structures.
- .xml file containing measurements of segmented structures.

1. Tamez-Peña JG, Farber J, González PC, Schreyer E, Schneider E, Totterman S. Unsupervised segmentation and quantification of anatomical knee features: data from the Osteoarthritis Initiative. *IEEE Trans Biomed Eng.* 2012 Apr;59(4):1177-86. doi: 10.1109/TBME.2012.2186612. Epub 2012 Feb 3. PubMed PMID: 22318477.

<sup>2</sup>Linux & OS/X are planned